

# UNITED STATE DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			(Ca)
09/509,687 	04/19/00		TENTON		ATTORNEY DOCKET NO.
				М	WCM.63
	1MDсоы	HM22/0702	$\neg$	EXAMINER	
	23RD STREET	2ND FLOOR		NOLA ART UNIT	N, P PAPER NUMBER
				1644	
				DATE MAILED:	07/02/01

Please find below and/or attached an Office communication concerning this application or

Commissioner of Patents and Trademarks

# Office Action Summary

Application No. 09/509,687 Examiner

Patrick Notan

Ludgate et al.

Art Unit 1644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address

### Period for Reply

THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filled

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the considered unitary, and the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will apply and will expire SIX (6) MONTHS from the maximum statutory period will be sufficient to the sufficient to the maximum statutory period will be sufficient to the sufficient

Communication.

Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). \*Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any Status Responsive to communication(s) filed on \_\_\_\_\_ 2a) This action is FINAL. 2b) This action is non-final.  $31\Box$  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims 4) X Claim(s) 1-43 is/are pending in the application. 4a) Of the above, claim(s) \_\_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) 6) Claim(s) is/are allowed. 7) Claim(s) is/are rejected. is/are objected to. 8) X Claims 1-43 are subject to restriction and/or election requirement. Application Papers 9)  $\square$  The specification is objected to by the Examiner. 10) The drawing(s) filed on \_\_\_\_\_\_is/are objected to by the Examiner. 11)□ The proposed drawing correction filed on \_\_\_\_\_\_ is: a)□ approved b)□ disapproved. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) All b) Some\* c) None of: 1. 
Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. 

Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \*See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) 15) Notice of References Cited (PTO-892) 18) Interview Summery (PTO-413) Pepar No(s). 16) Notice of Draftsperson's Patent Orawing Review (PTO-948) 19) Notice of Informal Patent Application (PTO-152) 17) Information Oisclosura Statement(s) (PTO-1449) Paper No(s). U. S. Patent and Trademark C

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Serial Number: 09/509,687 Art Unit: 1644

#### Part III DETAILED ACTION

- Please Note: In an effort to enhance communication with our customers and reduce processing time, Group 1640 is running a Fax Response Pilot for Written Restriction Requirements. A dedicated Fax machine is in place to receive your responses. The Fax number is 703-305-3704. A Fax cover sheet is attached to this Office Action for your convenience. We encourage your participation in this Pilot program. Thank you in advance for allowing us to enhance our customer service. Please limit the use of this dedicated Fax number to responses to Written Restrictions.
- Claims 1-43 are pending. 2.

## Election/Restrictions

3. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-13. 30-32, drawn to an assay for TSH autoantibodies or TSH.

Group II, claims 14-32, drawn to kits.

Group III, claims 33-35, drawn to use of cDNA or mRNA. Group IV, claims 36-42 drawn to recombinant cells and DNA.

Group V, claim 43 drawn to a receptor.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the combined teachings of Ludgate and Himmler et al., make Applicant's claimed obvious. Ludgate et al., teaches the use of TSH-R transformed cells to test for TSH-autoantibodies wherein said assay includes measuring adenylyl cyclase activity by direct cAMP measurement. Himmler et al., teaches a CHO cell stably transformed with a reporter plasmid containing the firefly luciferase gene under the transcriptional control of CRE's and it further teaches that the use of their CRE assay system is far less work intensive than direct cAMP measurement (see abstract). Therefore one of ordinary skill in the art would have been motivated to modify the cAMP assay taught by Ludgate et al., with the cAMP assay taught by Himmler et al., because using a reporter plasmid containing the firefly

luciferase gene under the  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) +\left( 1\right) \left( 1\right) +\left( 1\right) +$ less work intensive than direct cAMP measurement. Since Applicant's inventions do not contribute a special technical feature when viewed over the prior art they do not have single general inventive concept and lack unity of invention.

- Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- Any inquiry concerning this communication or communications from the examiner should be directed to Patrick Nolan whose telephone number is (703) 305-1987. The examiner can normally be reached on Monday through Thursday from 8:00 am to 5:30 pm.
- If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Christina Chan, can be reached at (703) 305-3973. The FAX number for our group, 1644, is (703) 305-7401. Any inquiry of a general nature relating to the status of this application or proceeding should be directed to the Group receptionist, whose telephone number is (703) 308-0196.

Patrick J. Nolan, Ph.D. Patent Examiner, Group 1640 June 28, 2001

PRIMARY EXAMINER

6/28/01